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PART #	DESCRIPTION
48700C	21-UP FORD BRONCO FRONT VS CDCV COILOVER KIT

COMPONENTS INCLUDED	
(1) 144930CD 21-UP BRONCO FRONT 0-3.5" 2.5 C/O CDCV UPKG DRIVER (1) 144930CP 21-UP BRONCO FRONT 0-3.5" 2.5 C/O CDCV UPKG PASSENGER (1) 250002 D 7.50 UNIVERSAL RESI MT PLATE CZINC	(1) 250002O 7.50 UNIVERSAL RESI MT PLATE OFFSET CZINC (2) 141007 21-UP BRONCO RESI MOUNT (1) 611019 COILOVER HARDWARE KIT (1) 611052 COILOVER LOWER HARDWARE KIT (1) 611083 BRONCO SWAY BAR DROP KIT
HARDWARE INCLUDED	
(4) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT CZINC	(4) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT
611019 COILOVER HARDWARE KIT	
(6) 605101 3/8-16 X 1.000 HHCS GR8 YZINC	(6) 605131 3/8 SPLIT LOCK WASHER GR8 YZINC
611052 COILOVER LOWER HARDWARE KIT	
(4) 605205 7/16-14 X 2.750 HHCS GR8 YZINC (4) 605230 7/16 SAE FLAT WASHER GR8 YZINC	(4) 605231 WASHER 1.00 X .469 X .125 BOXIDE
611083 BRONCO SWAY BAR DROP KIT	
(2) 147042 SWAY BAR SPACER (2) 290025 WASHER 1" X .505" X .375" (4) 605230 7/16 SAE FLAT WASHER GR8 YZINC	(4) 605749 7/16-14 X .750 HHCS GR8 YZINC (4) 605918 M12 X 1.75" X 30MM BHCS ZINC (1) 605968 VIBRATITE BLUE 2ML BULLET
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH RATCHET EXTENSIONS 5/16" SOCKET / WRENCH 9/16" SOCKET / WRENCH 5/8" SOCKET / WRENCH	6MM HEX KEY 8MM SOCKET / WRENCH 10MM SOCKET / WRENCH 15MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 22MM SOCKET / WRENCH 24MM SOCKET / WRENCH
TECH NOTES	
<p>1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 150 PSI. RELEASING NITROGEN PRESSURE MAY LEAD TO SHOCK MALFUNCTION AND REDUCED RIDE QUALITY. FAILURE CAUSED BY LOW NITROGEN PRESSURE IS NOT COVERED UNDER ICON'S WARRANTY POLICY.</p> <p>2. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECOMMENDED RIDE HEIGHT. REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PRELOAD THE COIL BEYOND 2.6" OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL ADJUSTER NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL CAUSE THE COIL TO BIND AND DAMAGE WILL OCCUR TO COILOVER AND/OR VEHICLE.</p> <p>3. ESTIMATED INSTALL TIME: 4-5 HOURS.</p>	



WARNING!

**** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!**

**** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.**

**** ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.**

INSTALLATION

1. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

2. Disconnect sway bar from both lower control arms using a 6mm and 21mm wrench. Rotate sway bar and links up away from the lower arm. [FIGURE 1]



FIG.1

3. Remove the sway bar skid plate to gain access to the sway bar brackets (4 x 15mm bolts). [FIGURE 2]

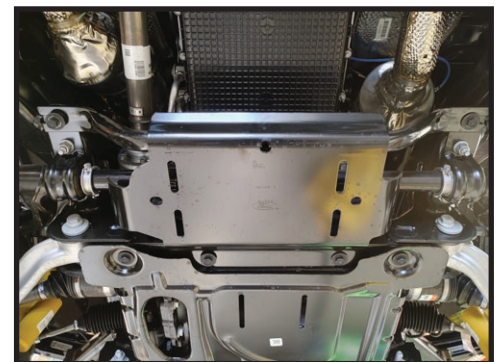
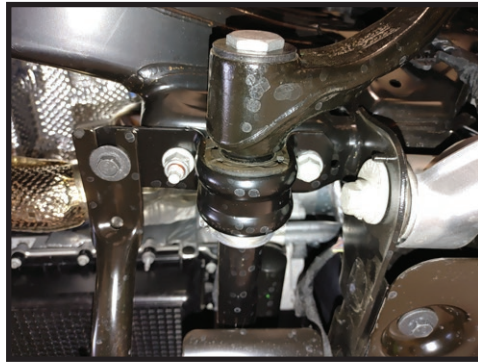


FIG.2

4. Remove one side of the sway bar from the frame to gain access to the lower control arm bolts (18mm). [FIGURE 3]

FIG.3



5. Support the lower control arm and remove the bolts from the frame. Remove the 15mm nuts from the top of the coilover. [FIGURE 4]

FIG.4



6. Remove the 18mm nuts from the bottom of the coilover. [FIGURE 5]

FIG.5



7. Lower the arm down so the coilover can be removed. [FIGURE 6]

FIG.6



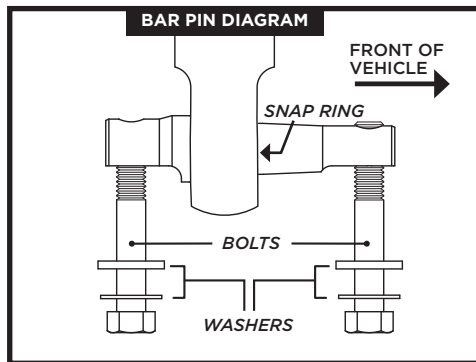
8. With the factory coilover removed, install the ICON coilover. Upper mount first using the supplied 3/8-16 x 1.00 GR8 bolts and split lock washers. Torque to 35 ft-lbs using a 9/16. [FIGURE 7]

FIG.7



9. Reinstall the lower control arm into the frame pockets using factory hardware (snug bolts only) and connect the lower shock to the control arm using the supplied 7/16 bolts and washers. Torque to 70 ft-lbs. Refer to the photo for proper bolt/washer orientation. [FIGURE 8]

FIG.8



10. Remove the stud from each side using an 8mm. [FIGURE 9]

FIG.9



11. Install the ICON sway bar relocation bracket using the supplied 12mm socket head bolts using an 8mm hex key. Apply thread locker to the bolts. Make sure the threaded holes in the relocation bracket are towards the back of the truck. Torque to 55 ft-lbs. [FIGURE 10]

FIG.10



12. Using the supplied 7/16 x 3/4 bolts and washer (apply thread locker) install the sway bar back into place. Torque bolts to 50 ft-lbs using a 5/8. [FIGURE 11]



FIG.11

13. For remote reservoir coilovers on 4 cylinder models:

- a. Remove the lower rubber fender liner and move the fabric fender liner out of the way to gain access to the ABS control module.

TIP: Complete removal of fender liner can make install easier. Four 7mm screws and 14 phillips push pins retain the liner.

- b. Drill a 5/16 hole into the ABS bracket as shown. [FIGURE 12]



FIG.12

14. Install the 250002 bracket as shown using one 3/8" self-tapping bolt. [FIGURE 13]



FIG.13

15. Passenger side install on 4-cylinder models:

- a. Remove the lower rubber fender line and move the fabric liner out of the way.
- b. Remove the rear 10mm bolt that holds the heater lines. Place the 2500020 bracket in position and reinstall factory bolt, as shown.
- c. Use supplied hose clamps to secure reservoir to brackets. **[FIGURE 14 & 15]**
- d. Cut and trim the fender liner as needed to show off your new reservoirs.

FIG.14

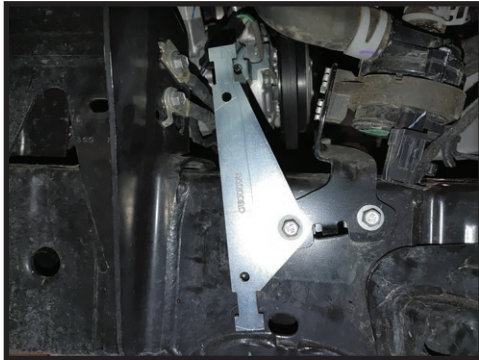


FIG.15



16. On V6 models:

- a. Remove the rubber fender liner and move the fabric line out of the way. Using a 5/16" drill bit, drill 2 holes and mount the supplied reservoir bracket as shown.
- b. Use supplied hose clamps to secure reservoir.
- c. Cut and trim the fender liners as needed to show off your new reservoirs. **[FIGURE 16 & 17]**
- d. Make sure all bolts and nuts are tight. Install wheels and tires.

17. Lower vehicle to the ground and tighten the lower control arm pivot bolts.

18. Get vehicle professionally aligned.

FIG.16



FIG.17



VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

2.5 VS SERIES SHOCK & COILOVER TECHNICAL INFORMATION

MAINTENANCE

ICON shock absorbers are a high quality rebuildable race style shock absorber designed for optimal performance. With a unit of this caliber on your vehicle, routine maintenance is required to keep them looking and operating in like new condition. Residual oil and assembly lube may be present at all seal paths from the factory out of the box and is considered normal. Pooling of oil however is not acceptable at any time and one should contact the ICON dealer where purchased.

BELOW ARE GUIDELINES BASED ON HOW YOU USE YOUR VEHICLE BUT YOUR MILEAGE MAY VARY:

STREET USE:

- Send in for factory servicing every 40,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Remove any buildup of road salt, mud, or debris from shocks and coil springs anytime accrued
- Clean with mild soap and water with each oil change or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure yearly. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

STREET/DIRT:

- Send in for factory servicing every 15,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Clean with mild soap and water with each oil change, offroad trip, or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure each dirt outing. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

DIRT USE:

- Send in for factory servicing every 1,000 miles.
- Check nitrogen pressure each outing. (252004 charge needle assembly available at any ICON distributor)
- Remove any buildup of mud or debris from shocks and coil springs after every outing.

SELF-SERVICE:

- Contact ICON for service kits & tools at (951) 689-4266.

PRODUCT REGISTRATION

Please visit: <http://www.iconvehicledynamics.com/tech-support/registration/> to register your product.

ICON VEHICLE DYNAMICS SHOCK ABSORBER WARRANTY

This shock absorber has a 1 year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the shock must be shipped to ICON Vehicle Dynamics for inspection and service. If a shock is inspected and it has been determined the shock failed due to neglect, damage caused by improper installation or any other reason besides "normal wear and tear", the owner of said shock is responsible for all service costs. This includes labor, parts, and shipping.

ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America and Canada.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.

To send a shock in for warranty please visit our website <http://www.iconvehicledynamics.com/tech-support/shock-service/>



ICON VEHICLE DYNAMICS®
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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